

546,391

Rec'd PCT/PTO 18 AUG 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 September 2004 (10.09.2004)

PCT

(10) International Publication Number
WO 2004/077124 A1

(51) International Patent Classification⁷: G02B 26/02, (74) Agent: RAAP, Adriaan, Y.; Prof. Holstlaan 6, NL-5656 G09F 9/37, G09G 3/32, G02F 1/19 AA Eindhoven (NL).

(21) International Application Number:

PCT/IB2004/050119

(22) International Filing Date: 18 February 2004 (18.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03100460.9 26 February 2003 (26.02.2003) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

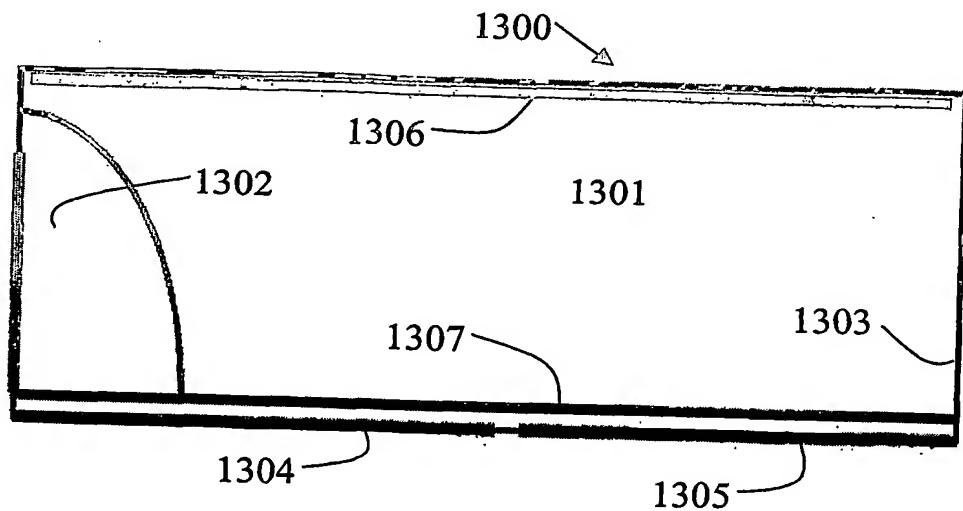
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: A PASSIVE MATRIX DISPLAY WITH BISTABLE ELECTRO-WETTING CELLS



WO 2004/077124 A1

(57) Abstract: A display unit comprising electro-wetting pixels (1300) is provided. The inventive pixels (1300) provide bistable or multi-stable pixel states and thus facilitates passive matrix addressing. For this purpose an additional electrode (1305) is arranged for each multi-stable state. Consequently, each pixel comprises one counter electrode (1306) and at least one pair of address and retain electrodes (1304, 1305). In order to activate a pixel, an address potential is applied to the address and retain electrodes (1304, 1305) in relation to the counter electrode (1306), and in order to deactivate a pixel the potential is removed. In order to retain a current pixel state a retain potential is applied to only the retain electrode (1305) in relation to the counter electrode (1306); the current pixel state, be it active or passive, will then be preserved and the retain potential configuration thus provides a bistable pixel state.